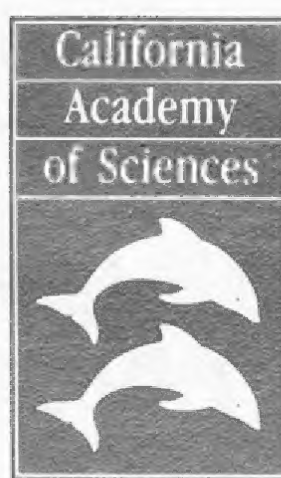


The ACADEMY NEWSLETTER

December 1990

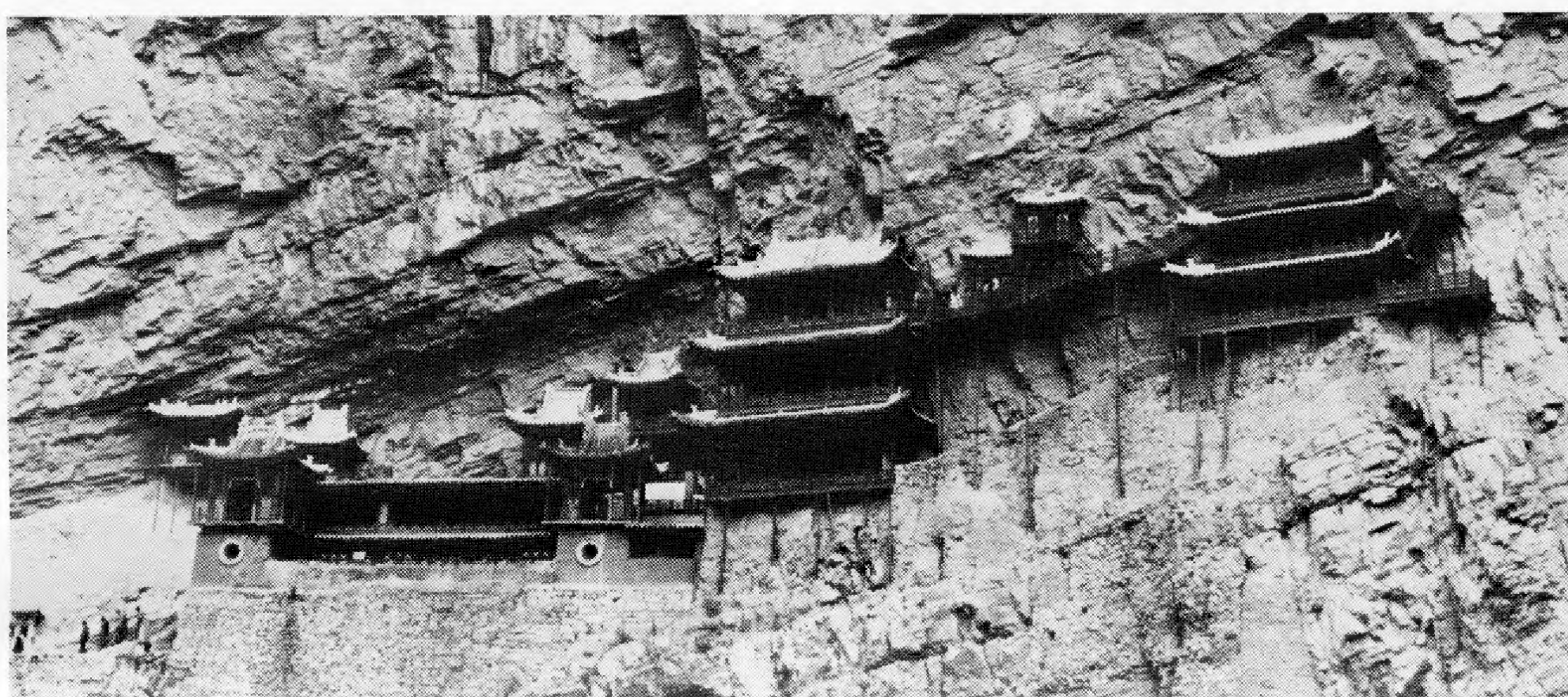


Members' Meetings

'Sacred Mountains of the World'

Wed., December 12, 2 & 7:30

Thurs., December 13, 7:30



Edwin Bernbaum

The Temple Hanging in the Air, China

A scholar of comparative religion and an experienced mountaineer, Dr. Edwin Bernbaum has studied mountains from a secular as well as a sacred perspective. In this special presentation, Bernbaum will take us on a fascinating journey to sacred mountains throughout the world from the Himalayas to the Andes to the Alps. Using images from his lavishly illustrated book, *Sacred Mountains of the World*, Dr. Bernbaum will discuss the prominent role mountains have played in the religions and beliefs of cultures throughout the ages. He will also examine the impact this sense of sacred wild places has on our desire to protect

our environmental heritage.

"Without an underlying sense of the sacred, conservation efforts based only on ecological facts and theories falter in the face of powerful economic forces determined to use up the land and its resources."

This poignant presentation will be in Morrison Auditorium and will be followed by a book-signing with the author. The book will be available at the Academy Store which will be open 30 minutes before and after the meeting. January's Members' Meetings will be on January 9 & 10 with the Academy's John McCosker talking about the Galapagos Islands.

Young Audiences Sunday, December 23, 1 pm

Young Audiences presents an exciting series of performing arts programs for children one Sunday each month in Morrison Auditorium. On December 23, *Dimensions Dance Theatre* will trace the

roots of African-American culture using vibrant music and dance. This program is made possible through the McKesson Foundation and Grants for the Arts.

Sky Show

'A Christmas Star'



The special Holiday show in the Morrison Planetarium will be "A Christmas Star." This popular presentation takes you back in time 2,000 years as it unravels the mysteries of one of the most enduring yuletide stories — The Star of Bethlehem. Shows will be at 2 pm on weekdays and at 1, 2, 3, and 4 pm on weekends.

"Startalk" looks at the phases of the moon, the constellations and what's up in the current night sky from sunset to sunrise. Shows are at noon on Saturdays and Sundays.

Note: The Planetarium will have a special schedule for Christmas week: "A Christmas Star" will show at 2 and 3:30 pm and "Startalk" will show everyday at 12:30. The Planetarium will be closed on Christmas Day.

Junior Academy

The Junior Academy will have activities for kids of all ages during the Holidays. From Dec. 20 to Jan. 4, there will be special programs including one-day workshops, overnight field trips and classes for the entire family. Microscopes and mini-beasts, chemistry, plate tectonics, entomology and nature's gifts are just a few examples of some of the topics. For more information, call the Junior Academy at 750-7100.

*The California Academy of Sciences
In Association with City Arts & Lectures, Inc.
Presents*

*California Academy of Sciences'
Conversations At the Herbst Theater*

This series of on-stage conversations with noted natural history authors is sponsored by The Richard and Rhoda Goldman Fund and the MacDonnell Foundation. Through this new series, the Academy intends to provide thought-provoking, entertaining programs on worldwide environmental issues to a broader audience than can be served at the Academy's facilities. The beautiful Herbst Theater is the setting for this expansion of the educational goals of the Academy. This first in an ongoing series will include the following noted authors:

March 7: BARRY LOPEZ

Arctic Dreams; Crow and Weasel

March 21: PETER MATTHIESSEN

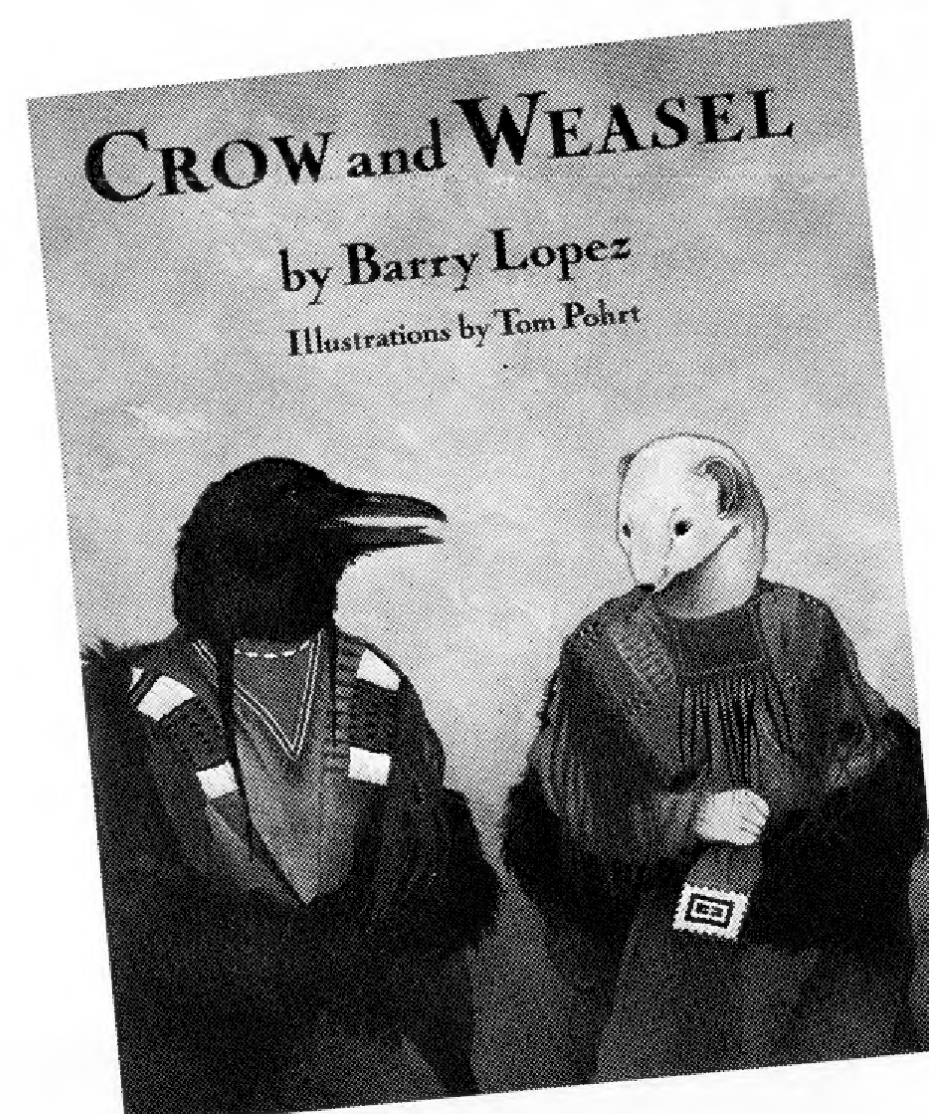
The Cloud Forest; The Snow Leopard

May 15: DIANE ACKERMAN

A Natural History of the Senses; Jaguar of Sweet Laughter

May 23: DR. PAUL R. EHRLICH

New World, New Mind; The Population Bomb



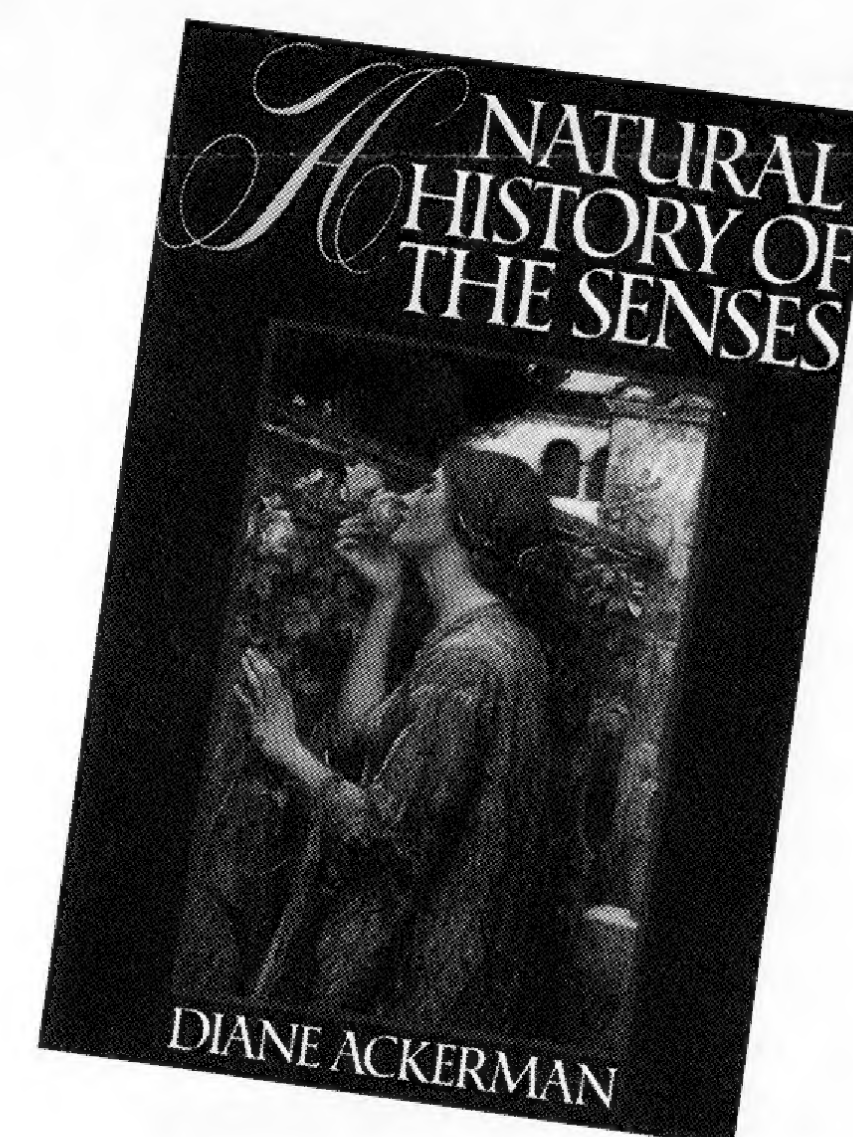
★ ★ ★

ALL PROGRAMS AT 8 PM

★ ★ ★

For Ticket Information

Call (415) 552-3656



TICKET ORDER FORM

Name _____ Daytime Phone _____
Address _____ Home Phone _____
City _____ State _____ Zip _____
MasterCard/Visa # _____ Exp. Date _____

Series Tickets:

CAS Members Series \$44 _____

Non-members Series \$48 _____

Series Patron: Contributors of an additional \$100 or more will be listed on the program as Series Patrons. All contributions are tax-deductible.

Mail Check (payable to Performing Arts Ticket Service) or credit card number with self-addressed and stamped envelope to:

Performing Arts Ticket Service
1182 Market Street
Room 216
San Francisco, CA 94102

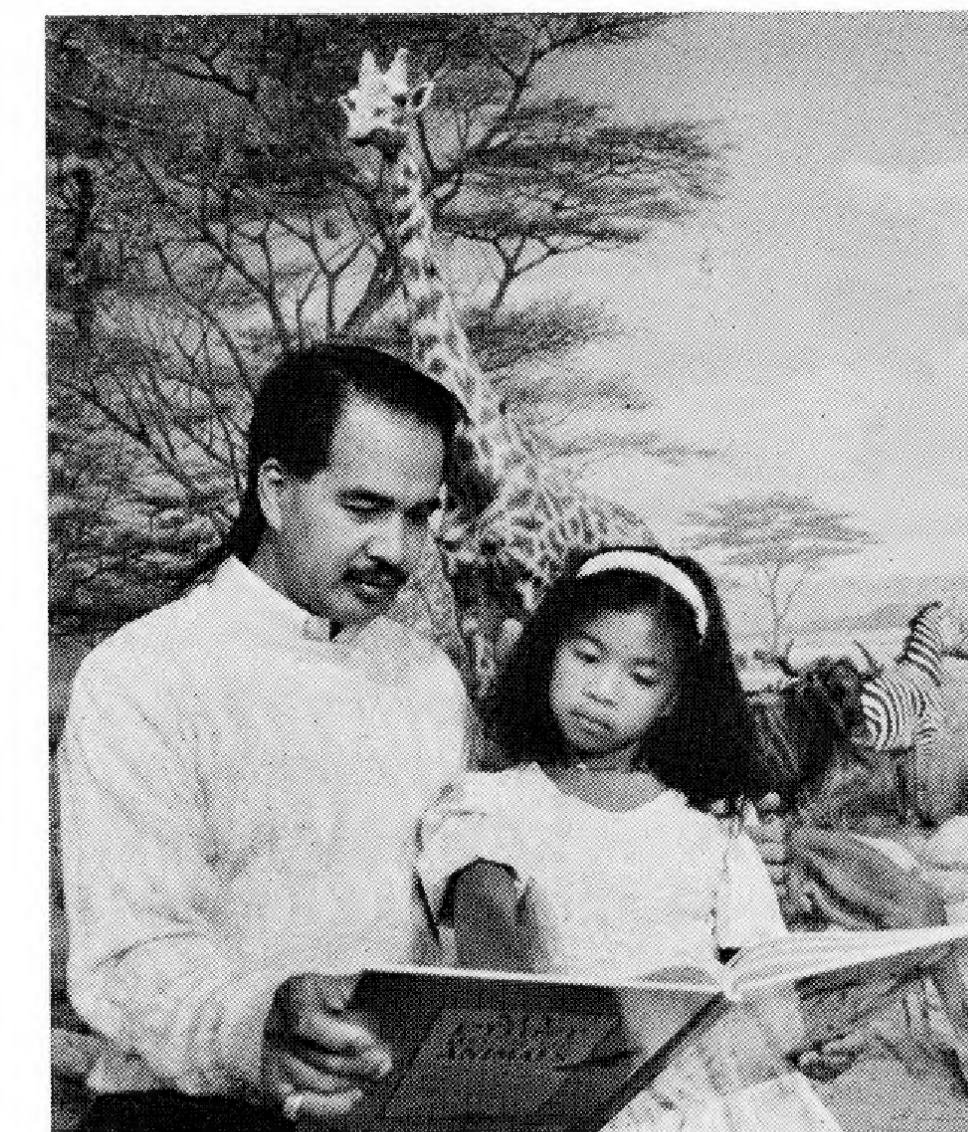
Ticket Fee \$ _____
Additional Contribution \$ _____
Mail Order Handling Chg \$2.00
Total Enclosed \$ _____

Holiday Book Fair

Members' Shopping Night

Friday, December 7,

5:30-8:30 pm



Caroline Kopp, CAS

Find a special book to share at the Holiday Book Fair.

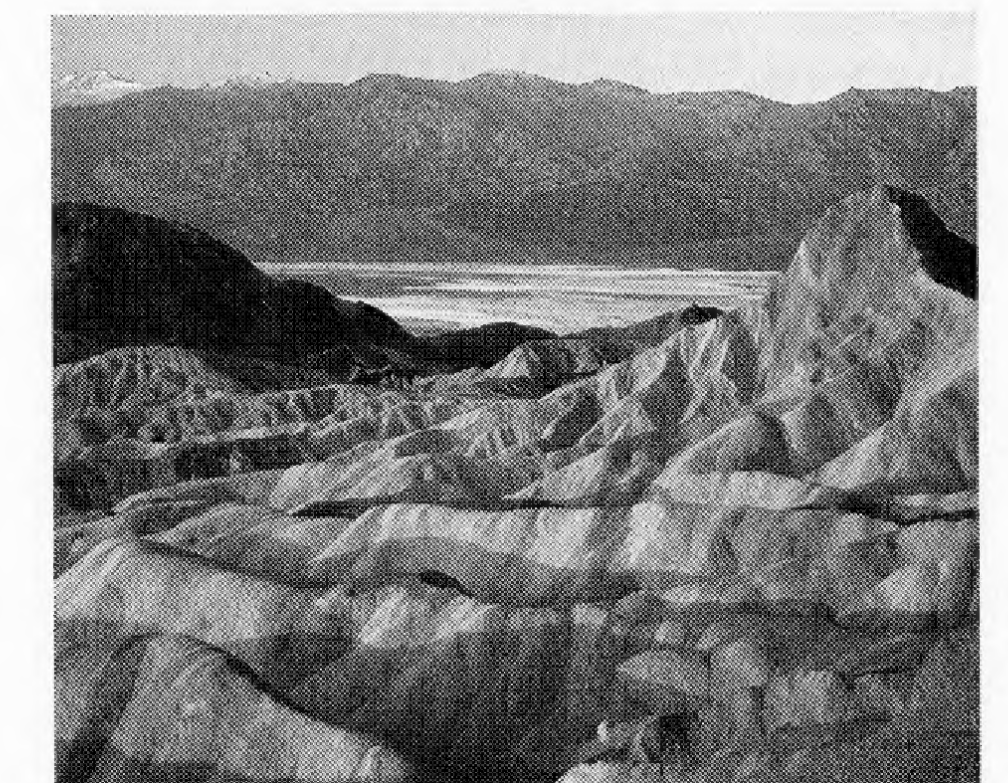
On December 7th, Santa will make a special appearance at the Academy's Holiday Book Fair! Academy members will have the perfect opportunity to purchase special gifts for your loved ones while you save 15% with your membership discount. Enjoy the best selection of gift books and unusual gift items before the public joins the fun on December 8th and 9th during regular museum hours. The entire museum will be open, and special activities are planned. For more information, call the Membership Office at (415)750-7115.

Academy Elects New Fellows

Dr. James C. Kelley, President of the California Academy of Sciences, recently announced the election of eleven new Fellows and four Honorary Fellows. Fellows are chosen for their contributions to science and their active participation in advancing the research, educational and environmental goals of the Academy. By charter, the number of Fellows is limited to 300 individuals who are elected for life. The new Fellows are: Dr. Howard A. Bern, Professor of Zoology, UC Berkeley; Dr. Dale P. Cruikshank, Planetary Geologist, NASA Ames Research Center; Dr. Thomas F. Daniel, Chairman, Department of Botany, California Academy of Sciences; Roy Eisenhardt, Executive Director, California Academy of Sciences; Dr. Don C. Erman, Professor of Aquatic Biology, Department of Forestry and Resource Management, UC Berkeley; Dr. Jacques A. Gauthier, Associate Curator, Department of Herpetology, California Academy of Sciences; Dr. Thomas H. Jukes, Professor, Department of Biophysics and Medical Physics and Department of Nutritional Sciences, Space

Sciences Laboratory, UC Berkeley; Dr. David Morrison, Astronomer, NASA Ames Research Center; Dr. Michael A. Murphy, Professor of Geology, UC Riverside; Dr. Amos M. Nur, Chairman, Department of Geophysics, Stanford University; and Dr. Frank G. Zalom, Director, University of California Statewide Integrated Pest Management Project, UC Davis. The Honorary Fellows are: Dr. Thomas Raymond Howell, Professor (Retired), Department of Ornithology, UC Los Angeles; Dr. Richard E. Leakey, Director of Wildlife Conservation and Management Department, Republic of Kenya; and Dr. Lynne R. Parenti, Associate Curator, Division of Fishes, National Museum of Natural History, Smithsonian Institution; Dr. John H. Reynolds, Professor (Retired), Department of Physics, UC Berkeley. Each year the Fellows' Medal is awarded to an individual who has made an outstanding contribution to science. This year the Fellows' Medal was awarded to F. Clark Howell, Professor of Anthropology at UC Berkeley, for his contributions to the field of physical anthropology.

*Pacific Discovery
Honored*



Larry Ulrich

Stunning desert photo from the award-winning Pacific Discovery.

The Winter 1990 issue of *Pacific Discovery* has been awarded the coveted Ozzie Award for Design Excellence, sponsored by Magazine Design & Production. It received a Silver Award for Best Special or Single Issue Design, Consumer; and an Honorable Mention for Best Overall Design, Consumer. *Pacific Discovery* was chosen from more than 1300 entries of the best-designed publications in the United States and Canada.

Academy Travel

Journey into exotic lands on a thrilling Academy Expedition. All tours are planned by Academy staff and led by Academy lecturers to ensure that each day is an enlightening learning experience. For tour information, call the Academy Travel Office at (415)750-7222.

A Cruise to Patagonia and the Falkland Islands

February 28-March 13

Lecturer: Dr. Kathy Ann Miller

The Island World of Indonesia

March 12-27

Spring in the Pacific Northwest

May 18-27

Birding in Northern Scotland, the Shetlands and the Orkneys

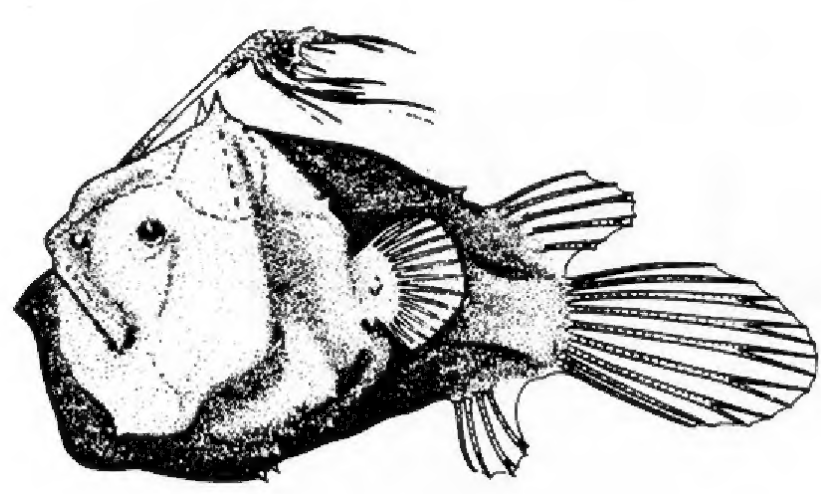
May 25-June 8

Lecturer: Dr. Robert Drewes

Exploring the Pyrenees and Northern Spain

June 15-July 3

Adult Education



It's not too late to sign up for some fascinating adult courses this winter. For example, these classes are still open:

The Biology of Anglerfish
A bizarre group of fish that gets its name from a modified dorsal fin spine which is decorated in a variety of ways to lure prey.
Thursday, Jan. 10, 7-9 pm
Instructor: Dr. Margaret Bradbury
\$8 members/\$10 non-members

Illustrating Birds in Colored Pencil and Gouache
Capture the iridescence of the smallest hummingbird or the soaring majesty of the great condor using pencil and gouache on paper.
January 9 - February 6
(5 Wednesdays), 7-9:30 pm
Instructor: Carolynne Griffin
\$70 members/\$80 non-members

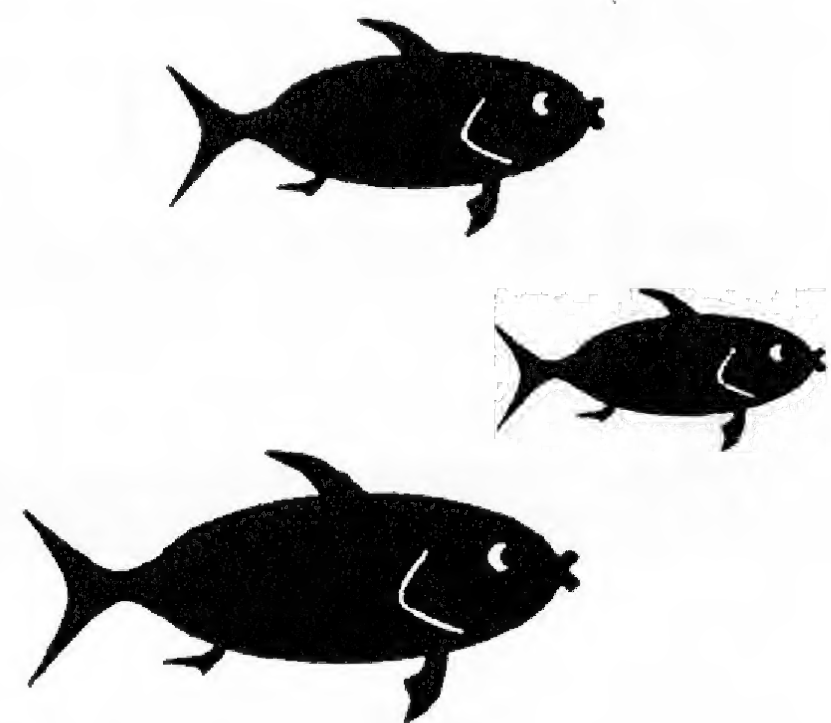
The Violent Earth
An in-depth look at earthquakes, volcanic eruptions, landslides, floods and extraterrestrial impacts.
January 9-23 (3 Wednesdays), 7-9pm
Instructor: Dr. Peter Rodda
\$30 members/\$35 non-members

Contact the Adult Education Program at 750-7100 for more information on these and other courses and study tours.

The Academy's Holiday Tree

On Saturday, December 1st, members of the Japanese community will decorate the Academy's Christmas tree with handmade origami ornaments of animals, birds, plants and other wonders from the natural world.

Research At The Academy



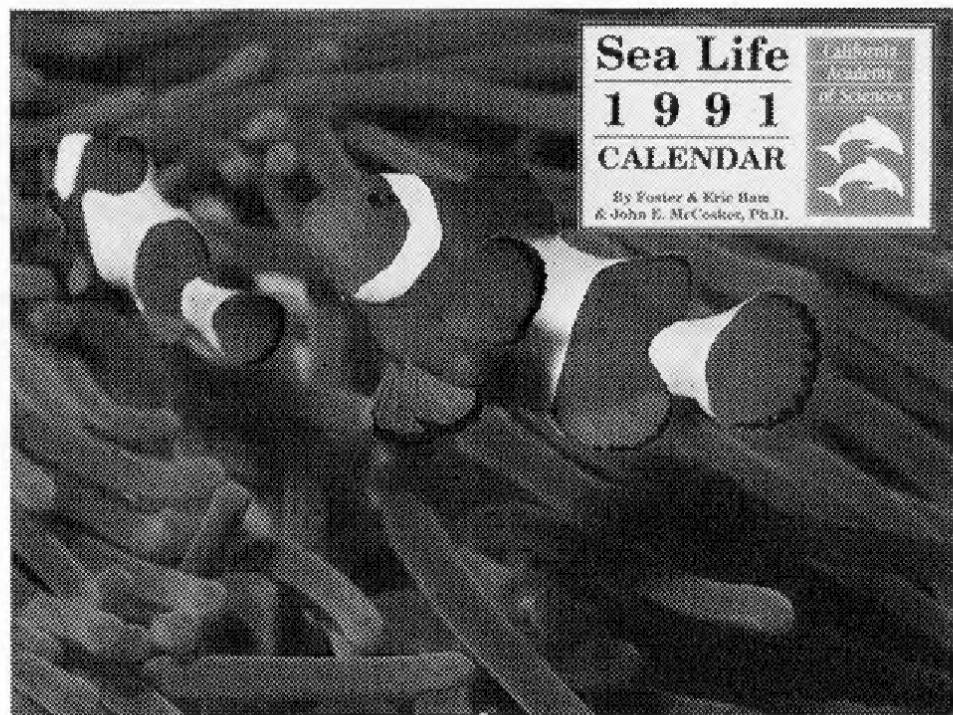
The Academy's Scientific Publications recently published a "Catalog of the Genera of Recent Fishes." The Catalog is a 700-page work by Dr. William Eschmeyer, Chairman of the Ichthyology Department (with sections by collaborators). The work contains accounts for over 10,000 genera, a new classification, and over 5600 literature-cited entries. It results from a multi-year database-building project in Ichthyology funded by the National Science Foundation. The Catalog serves as a guide to the literature on systematics of fishes and as a valuable reference in Ichthyology. To order, please call 750-7047.

* * * *



The recent September/October issue of *Islands* magazine features photographs by Academy Executive Director, Roy Eisenhardt and Dr. Terry Gosliner, Director of Research, in an article about nudibranchs. Dr. Gosliner was also interviewed for this article which reveals fascinating facts about these colorful sea slugs.

Give a Gift Membership and Receive a Free Academy Calendar



This Holiday Season give a special gift of science, learning and fun which can be enjoyed for the whole year! An Academy membership will bring the wonders of the natural world to those special people on your gift list. When you buy a gift membership, we will send you a free Academy Sea Life calendar. With text by Dr. John McCosker and beautiful photographs by Foster and Eric Bam, this full-color wall calendar will look beautiful at home or in the office. To take advantage of this offer, please respond by December 15. For more information, call the Membership Office at 750-7111. The calendar is available in the Academy Store for \$9.95.

Free First Wednesday

December 5, 5-8 pm

On December 5th come to the Academy and celebrate the winter Holidays with good cheer! Enjoy the music of the season at the Holiday Bar. The Discovery Room will be open with interactive exhibits from the world of nature. Make traditional craft ornaments at our hands-on activity for families. It's all happening from 5-8 pm on December 5. These special Wednesday night programs are made possible through a generous grant from The Bernard Osher Foundation.

Traditional Arts Program for December

Enjoy the musical and artistic heritage of other cultures as the Academy's Traditional Art Programs take you around the world every Saturday at 1 pm in Wattis Hall or Morrison Auditorium. These programs are endowed by a gift from the Paul L. and Phyllis Wattis Foundation and are free after general admission. Call 750-7142 for more information.

Dec. 1 — Jan Bartz paints designs on goose eggs collected from her own backyard. The motifs, mainly birds, are drawn from the rural landscape of the Delta.

Dec. 8 — Luis Saldaña, from Mexico City, shows us how to make an assortment of instruments that create sound effects from nature, such as the *palo de lluvia* (rain-stick), *ocarinas* (whistles), and rattles from seed pods, many of which were used for ceremonial purposes by the Aztec Indians.

Dec. 15 — Vocalist and guitarist Judy Frankel performs Yiddish songs that reflect the East European Jewish experience, including



Jan Bartz paints designs on goose eggs

those of Russian origin. Judy encourages children and parents alike to join in the choruses and refrains.

Special Holiday Event

On December 15 at 2 pm in the Auditorium, the *Deutscher Musik-Verein Orchestra* returns to the Academy for a special Yuletide concert of Christmas music from around the world. Bring the family to this festive sing-along.

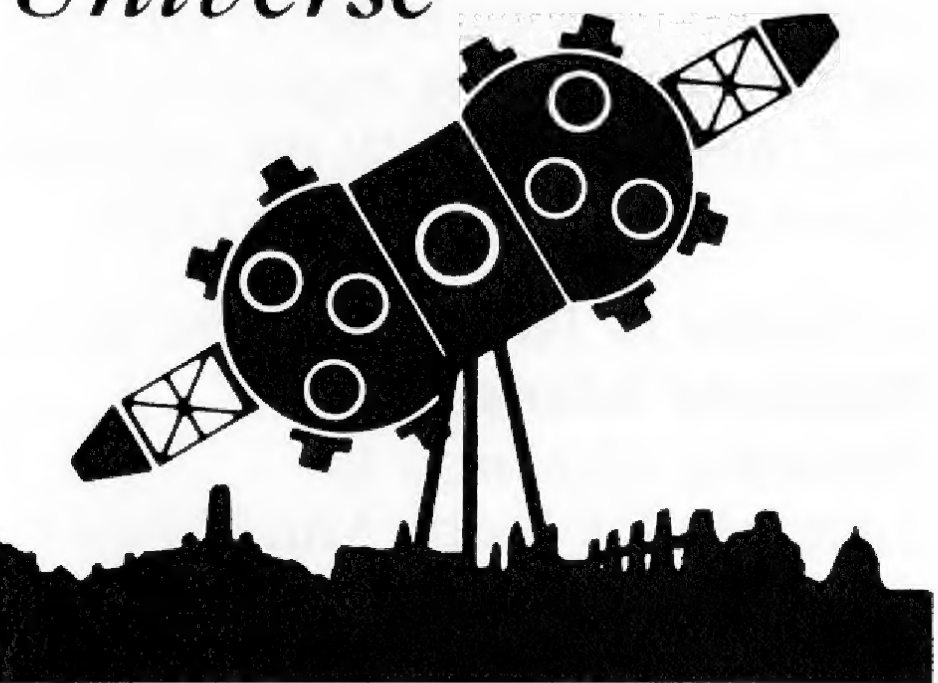
Members' Benefits for Educators



Caroline Koppe, CAS

Education has always been a primary focus of the Academy, and now the Membership Office is offering additional benefits to our members who are educators. If you are a teacher or school administrator and are interested in learning more about these benefits, please write us for more information. Please use school letterhead, if possible, and let us know the grade level(s) you teach. Send your request to:
Membership Office
California Academy of Sciences
Golden Gate Park
San Francisco, CA 94118
For more information, please call Mark Zimmerman at (415) 750-7115.

Lecture Series "Exploring the Universe"



"Exploring the Universe," a series of presentations in the Morrison Planetarium, begins its fourth season on January 15th. Join us as astronomers and planetary scientists from leading Bay Area research institutes present their views of the cosmos. This series is made possible through the generosity of the Benjamin D. Dean Endowment Fund.

Jan. 15 "The Formation of Planetary Systems," Dr. Frank Shu, UC Berkeley

Feb. 12 "The Birth of the Stars," Dr. Martin Cohen, UC Berkeley and NASA/Ames

March 19 "Views of Venus (and Earth) from Galileo," Dr. Jim Pollack, NASA/Ames

April 16 "COBE: Observing the Early Universe," Dr. George Smoot, Space Science Lab, UC Berkeley

May 14 "Probing the Universe with the Hubble Space Telescope," Dr. Alex Filippenko, UC Berkeley

All programs begin at 7:30 pm in the Planetarium. Tickets are \$2 each. Call 750-7129 for more information. To order tickets, please

send the form below with your check, payable to Morrison Planetarium, and a self-addressed, stamped envelope to:

"Universe"
Morrison Planetarium
California Academy of Sciences
Golden Gate Park
San Francisco, CA 94118

Exploring the Universe

Name _____
Address _____
City _____ Zip _____

Jan. 15: _____ x \$2.00 = \$ _____
Feb. 12: _____ x \$2.00 = \$ _____
Mar. 19: _____ x \$2.00 = \$ _____
Apr. 16: _____ x \$2.00 = \$ _____
May 14: _____ x \$2.00 = \$ _____
Total \$ _____

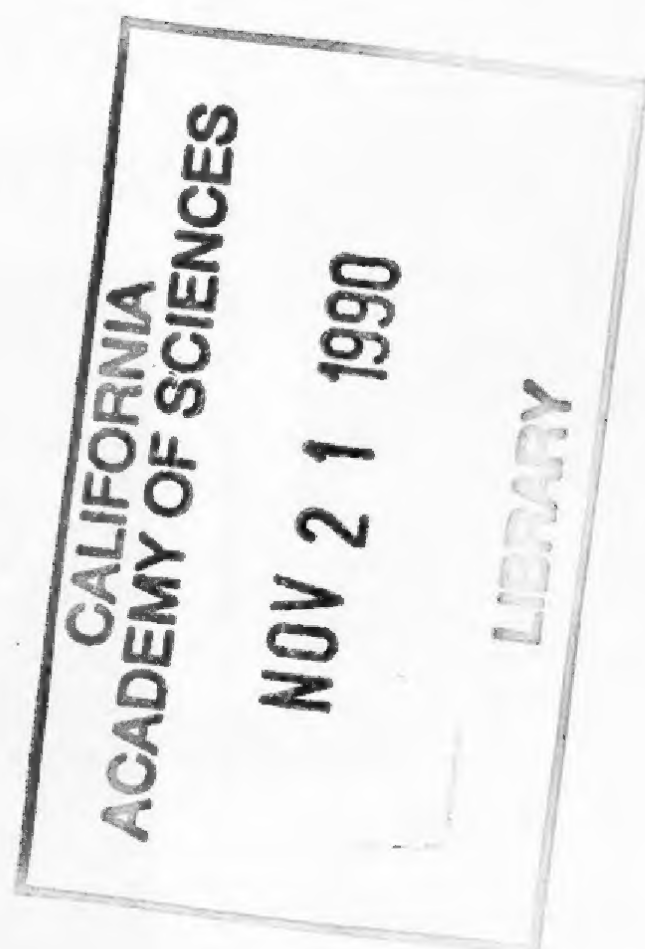
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December 1990

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Calendar of Events

December

- 1 Traditional Arts, 1 pm
- 5 First Wednesday Night, until 8:45 pm
- 7 Members' Book Fair, 5:30 pm
- 8 Traditional Arts, 1 pm
- 12 Members' Meetings, "Sacred Mountains,"
2 & 7:30 pm
- 13 Members' Meeting, 7:30 pm
- 15 Traditional Arts, 1 pm
- 15 Christmas Sing-Along, 2 pm
- 23 Young Audiences, 1 pm

January

- 9 Members' Meetings, "Galapagos," 2 & 7:30 pm
- 10 Members' Meeting, 7:30 pm
- 15 "Universe" lecture series, 7:30 pm

The Academy Store

Fishes and Frogs Frolic on Your Tree!



Start your Holiday shopping at the Academy Store and find the animal kingdom brought to life through our assortment of ornaments, gift wrap, Holiday cards, games, puzzles, T-shirts, books, teapots, glassware, pottery, jewelry and stocking stuffers. Please enjoy a safe and happy holiday season.